

**IN THE CLAIMS**

1. (Original) A high pressure fuel pump for an internal combustion engine having a cylinder, a plunger slidably fitted in the cylinder and a seal mechanism for blocking fuel leakage from an end of a sliding portion between said cylinder and said plunger and also for preventing an lubricant for a driving mechanism of said plunger from entering into said cylinder from said end of the sliding portion of said cylinder and said plunger, wherein:

a holder surrounding said end of the sliding portion of said cylinder and said plunger is provided;

said seal mechanism comprises two mutually independent seal devices mounted with a specific spacing in a longitudinal direction from said end of the sliding portion of said cylinder and said plunger along a circumference of said plunger; and

the two seal devices are held on the circumference of said plunger by said holder surrounding said end of the sliding portion of said cylinder and said plunger while keeping said specific spacing.

2. (Original) A high pressure fuel pump according to claim 1, further comprising a spacer for regulating said specific spacing mounted between said two seal devices.

3. (Original) A high pressure fuel pump according to claim 1, wherein the seal device on said cylinder side, of said two seal devices, has a fuel seal function, and the remaining seal device has a lubricant seal function.

4. (Original) A high pressure fuel pump for an internal combustion engine having a cylinder, a plunger slidably fitted in the cylinder, a seal mechanism for blocking fuel leakage from an end of the sliding portion of said cylinder and plunger and also preventing a lubricant for a driving mechanism of said plunger from entering into said cylinder from said end of the sliding portion of said cylinder and said plunger, and a holder having a screw portion for threadedly engaging with a pump body, said cylinder being mounted in said holder and being fixed to the pump body by threadedly engaging the holder with the pump body, wherein:

said holder has a cover portion for surrounding said sliding portion of the cylinder and plunger;

said seal mechanism comprises two mutually independent seal devices mounted with a specific spacing in a longitudinal direction from said end of the sliding portion of said cylinder and said plunger along a circumference of said plunger; and

the two seal devices are held on the circumference of said plunger by the cover portion of said holder while keeping the specific spacing.

5. (Original) A high pressure fuel pump according to claim 4, further comprising a spacer for regulating said specific spacing mounted between said two seal devices.

6. (Original) A high pressure fuel pump according to claim 4, wherein the seal device on said cylinder side, of said two seal devices, has a fuel seal function, and the remaining seal device has a lubricant seal function.

7. (Original) A high pressure fuel pump for an internal combustion engine comprising a plunger for force-feeding fuel in a pressurization chamber, a suction valve provided at an inlet of the pressurization chamber, a discharge valve provided at an exit of the pressurization chamber, a low pressure chamber provided on an upstream side of the suction valve, a cylinder for slidably holding said plunger, and a seal structures for rendering an outer circumference of said plunger sealed fluid-tight located at two locations at an outside of said cylinder and in an axial direction of said plunger,

wherein an annular member made of a resin is used in the seal structure located on said pressurization chamber side, of said seal structures at two locations.

8. (Original) A high pressure fuel pump according to claim 7, wherein the seal structure on the opposite side to the pressurization chamber, of said seal structures at two locations, is a rubber annular structure.

9. (Original) A high pressure fuel pump for an internal combustion engine comprising a plunger for force-feeding the fuel in a pressurization chamber, a suction valve provided at an inlet of the pressurization chamber, a discharge valve provided at an exit of the pressurization chamber, a low pressure chamber provided on an upstream side of the suction valve, a cylinder for slidably holding said plunger, and seal structures for rendering an outer circumference of said plunger sealed fluid-tight located at two locations at an outside of said cylinder and in an axial direction of the plunger,

wherein there is provided in the cylinder a transverse hole by which the fuel leaked from the pressurization chamber to a fuel reservoir formed on a pressurization chamber side of the seal structures through a clearance between said cylinder and said plunger is returned to an inlet port.

10. (New) A high pressure fuel pump for an internal combustion engine having a cylinder, a plunger slidably fitted in the cylinder and a seal mechanism for blocking fuel leakage from an end of a sliding portion between said cylinder and said plunger and also for preventing a lubricant oil for a driving mechanism of said plunger from entering into said cylinder from said end of the sliding portion of said cylinder and said plunger, wherein:

said seal mechanism comprises two seal portions mounted with a specific spacing in a longitudinal direction from said end of the sliding portion of said cylinder and said plunger along a circumference of said plunger; and

a space in which the fuel and the lubricant coexist is provided between said two seal portions.

11. (New) A high pressure fuel pump according to claim 10, further comprising a spacer for regulating the spacing, mounted between said two seal portions.

12. (New) A high pressure fuel pump according to claim 10, wherein the seal portion on the cylinder side, of said two seal portions, has a fuel seal function, and the remaining seal portion has a lubricant seal function.

13. (New) A high pressure fuel pump according to claim 10, wherein said seal portion on said cylinder side, of said two seal portions, is structured by a resin annular member.

14. (New) A high pressure fuel pump according to claim 10, where the seal portion remote from said cylinder, of said two seal portions, is structured by a rubber annular member.